

## Federal Communications Commission

## § 22.567

repeater or other fixed transmitters). The mobile channels may also be assigned for use by base or fixed transmitters under certain circumstances (see §22.567(h)). Unless otherwise indicated, all channels have a bandwidth of 20 kHz and are designated by their center frequencies in MegaHertz.

| Base                | Mobile  | Base          | Mobile  |
|---------------------|---------|---------------|---------|
| <b>VHF Channels</b> |         |               |         |
| 152.03 .....        | 158.49  | 152.57 .....  | 157.83  |
| 152.06 .....        | 158.52  | 152.60 .....  | 157.86  |
| 152.09 .....        | 158.55  | 152.63 .....  | 157.89  |
| 152.12 .....        | 158.58  | 152.66 .....  | 157.92  |
| 152.15 .....        | 158.61  | 152.69 .....  | 157.95  |
| 152.18 .....        | 158.64  | 152.72 .....  | 157.98  |
| 152.21 .....        | 158.67  | 152.75 .....  | 158.01  |
| 152.51 .....        | 157.77  | 152.78 .....  | 158.04  |
| 152.54 .....        | 157.80  | 152.81 .....  | 158.07  |
| <b>UHF Channels</b> |         |               |         |
| 454.025 .....       | 459.025 | 454.350 ..... | 459.350 |
| 454.050 .....       | 459.050 | 454.375 ..... | 459.375 |
| 454.075 .....       | 459.075 | 454.400 ..... | 459.400 |
| 454.100 .....       | 459.100 | 454.425 ..... | 459.425 |
| 454.125 .....       | 459.125 | 454.450 ..... | 459.450 |
| 454.150 .....       | 459.150 | 454.475 ..... | 459.475 |
| 454.175 .....       | 459.175 | 454.500 ..... | 459.500 |
| 454.200 .....       | 459.200 | 454.525 ..... | 459.525 |
| 454.225 .....       | 459.225 | 454.550 ..... | 459.550 |
| 454.250 .....       | 459.250 | 454.575 ..... | 459.575 |
| 454.275 .....       | 459.275 | 454.600 ..... | 459.600 |
| 454.300 .....       | 459.300 | 454.625 ..... | 459.625 |
| 454.325 .....       | 459.325 | 454.650 ..... | 459.650 |

[59 FR 59507, Nov. 17, 1994; 60 FR 9889, Feb. 22, 1995, as amended at 62 FR 11636, Mar. 12, 1997]

### § 22.565 Transmitting power limits.

The transmitting power of base, mobile and fixed transmitters operating on the channels listed in §22.561 must not exceed the limits in this section.

(a) *Maximum ERP.* The effective radiated power (ERP) of base and fixed transmitters must not exceed the applicable limits in this paragraph under any circumstances.

| Frequency range (MHz) | Maximum ERP (watts) |
|-----------------------|---------------------|
| 152–153 .....         | 1400                |
| 157–159 .....         | 150                 |
| 454–455 .....         | 3500                |
| 459–460 .....         | 150                 |

(b) *Basic power limit.* Except as provided in paragraph (d) of this section,

the ERP of base transmitters must not exceed 500 Watts.

(c) *Height-power limits.* Except as provided in paragraph (d) of this section, the ERP of base transmitters must not exceed the amount that would result in an average distance to the service contour of 41.6 kilometers (26 miles) for VHF channels or 30.7 kilometers (19 miles) for UHF channels. The average distance to the service contour is calculated by taking the arithmetic mean of the distances determined using the procedures specified in §22.567 for the eight cardinal radial directions, excluding cardinal radial directions for which 90% or more of the distance so calculated is over water.

(d) *Encompassed interfering contour areas.* Base transmitters are exempt from the basic power and height-power limits of this section if the area within their interfering contours is totally encompassed by the interfering contours of operating co-channel based transmitters controlled by the same licensee. For the purpose of this paragraph, operating transmitters are authorized transmitters that are providing service to subscribers.

(e) *Adjacent channel protection.* The ERP of base and fixed transmitters must not exceed 500 Watts if they transmit on channel 454.025 MHz and are located less than 7 kilometers (4.3 miles) from any Private Radio Services station receiving on adjacent channel 454.0000 MHz.

(f) *Mobile transmitters.* The transmitter output power of mobile transmitters must not exceed 60 watts.

[59 FR 59507, Nov. 17, 1994, as amended at 70 FR 19309, Apr. 13, 2005]

### § 22.567 Technical channel assignment criteria.

The rules in this section establish technical assignment criteria for the channels listed in §22.561. The criteria in paragraphs (a) through (f) of this section permit channel assignments to be made in a manner such that reception by public mobile receivers of signals from base transmitters, within the service area of such base transmitters, is protected from interference caused by the operation of independent co-channel base and fixed transmitters in the Paging and Radiotelephone Service